Drinking Water Surveillance Program

CORNWALL WATER TREATMENT PLANT

Annual Report 1989

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CORNWALL
WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

CORNWALL WATER TREATMENT PLANT
1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 supplies being monitored.

The Cornwall Water Treatment Plant is a conventional treatment plant which treats water from Lake St. Lawrence. The process consists of coagulation, flocculation and sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of 100 x 1000 m^3/day and serves a population of approximately 46,000.

Samples of the raw and treated water from the plant and from two distribution system sites were taken on a monthly basis and analyzed for approximately 180 parameters. Parameters were divided into the following groups Bacteriological, Inorganic and Physical(Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Chlorophenols, Pesticide and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analysed in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below applicable health related ODWOs.

Of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Cornwall Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP

SUMMARY TABLE BY SCAN

SCAN	RAW TESTS	RAW POSITIVE	RAW %POSITIVE	TREATED TESTS	TREATED POSITIVE	TREATED %POSITIVE	SITE 1 TESTS	SITE 1 POSITIVE	SITE 1 %POSITIVE	SITE 2 TESTS	SITE 2 POSITIVE	SITE 2 %POSITIVE
BACTERIOLOGICAL	36	27	75	33	8	24	36	21	58	33	13	39
CHEMISTRY (FLD)	36	36	100	65	64	98	130	100	76	119	114	95
CHEMISTRY (LAB)	252	205	81	231	184	79	444	389	87	389	326	83
METALS	288	157	54	264	137	51	564	344	60	494	297	60
CHLOROAROMATICS	168	0	0	154	0	0	168	0	0	154	0	0
CHLOROPHENOLS	12	0	0	12	0	0	.	.	.	.	.	.
PAH	192	0	0	176	0	0	.	.	.	.	.	.
PESTICIDES & PCB	408	0	0	374	0	0	343	0	0	322	0	0
PHENOLICS	12	8	66	11	7	63	.	.	.	.	.	.
SPECIFIC PESTICIDES	65	0	0	64	0	0	12	0	0	11	0	0
VOLATILES	348	0	0	319	44	13	348	48	13	319	44	13
TOTAL	1817	433		1703	444		2045	902		1841	794	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM

CORNWALL WATER TREATMENT PLANT
1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 supplies being monitored.

The DWSP was initiated in February, 1987 with two distribution system sites and in September at the Water Treatment Plant. Annual Reports were published for 1987 and 1988 (ISSN 0840-5298).

This report contains information and results for 1989.

In order to accomodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analysed and discussion of results, consult the 1987 and 1988 reports.

PLANT DESCRIPTION

The Cornwall Water Treatment Plant is a conventional treatment plant which treats water from Lake St. Lawrence. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. The plant has a rated capacity of 100 x 1000 m^3/day and sample day flows ranging from 36.3 x 1000 m^3/day to 55.0 x 1000 m^3/day. This plant serves a population of approximately 46,000.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

SAMPLE LOCATIONS

Water samples were obtained from four DWSP approved locations;

i) Plant Raw - The water originated from the intake pipe prior to chlorination and was sampled through a stainless steel sample line. The sample tap is located in the screen house.

ii) Plant Treated - The water originated at the highlift discharge after addition of all treatment chemicals and was sampled through a stainless steel sample line. The sample tap is located in the plant's laboratory.

iii) Distribution System - Site 1 - This house is approximately 6 kilometers from the plant. Water was sampled

through copper plumbing from the basement laundry tap.

iv) Distribution System - Site 2 - This house is approximately 5 kilometers from the plant. Water was sampled through copper plumbing from the kitchen sink. Sampling began at this house in September.

SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on parameters for process control (Table 1).

Water at the treatment plant and at two sites in the distribution system was sampled monthly for approximately 180 parameters. Specific Pesticides and Chlorophenols were analysed in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analysed in the raw and treated water at the plant. As of August the triazine pesticides were only analyzed in the raw and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered onto the DWSP data base as submitted by plant personnel.

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

CORNWALL WATER TREAMENT PLANT

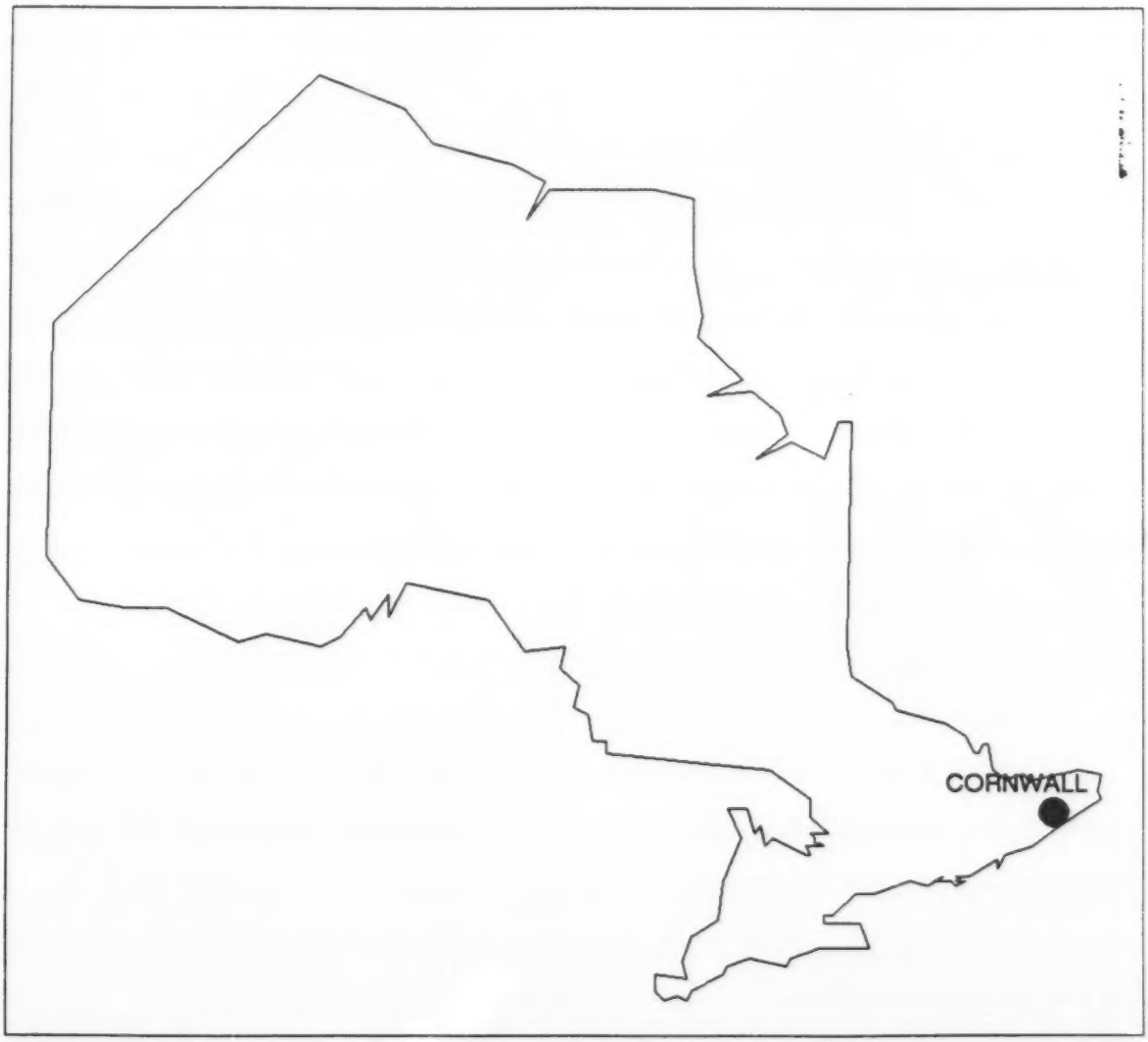

FIGURE 2

CORNWALL WTP

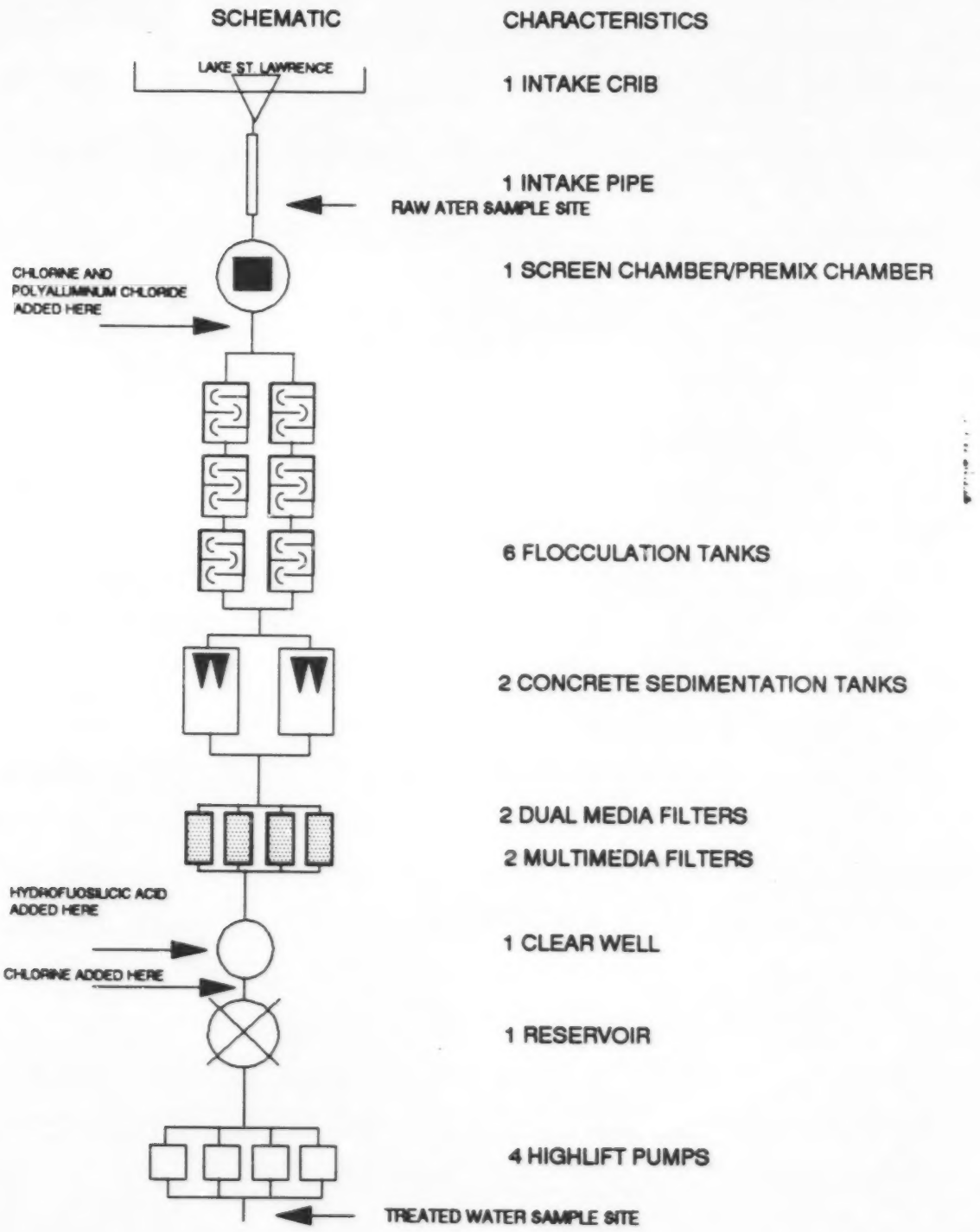

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING CORNWALL WATER TREATMENT PLANT 1989

PARAMETER	LOCATION	FREQUENCY
Chlorine residual	Highlift discharge	continuous
Temperature	Highlift discharge	hourly
Turbidity	Screen chamber	monthly
	Highlift discharge	monthly

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

CORNWALL WATER TREATMENT PLANT

LOCATION:	861 SECOND STREET WEST CORNWALL, ONTARIO (613-932-2235)
SOURCE:	RAW WATER SOURCE - LAKE ST. LAWRENCE
DESIGN CAPACITY:	100 (1000 M^3/DAY)
OPERATION:	MUNICIPAL
PLANT SUPERINTENDENT:	MR C. HEDLEY
MINISTRY REGION:	SOUTHEASTERN
DISTRICT OFFICER:	MR R. HELLIAR (ACTING)

MUNICIPALITY SERVED	POPULATION
CORNWALL	45,980

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analysed by parameter and by water type. The number of times that a positive or trace result was detected is also reported. Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 is a list of all paramters analysed in DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publictaion (ISBN 0-7743-8985-0). The Province of Ontario has health related and

aesthetic objectives for 49 parameters, these are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS) recently published (ISBN 0-7729-4461-x) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occuring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Bacteriology

The ODWO for Standard Plate Count of 500 counts/mL (indicating some deterioration) was exceeded, five times in the Site 1 water, in May, June, July, August and September and four times in the Site 2 water, in May, June, August and September.

Inorganic and Physical Parameters

Aluminum

The plant operational guideline of 100 µg/L as Al in the water leaving the plant was exceeded three times in the treated water.

Organic Parameters

Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, ranging from 15.0 to 52.0 µg/L, were well below the ODWO of 350 µg/L.

CONCLUSIONS

The Cornwall Water Treatment Plant for the sample year of 1989 produced good quality water that was maintained in the distribution system.

While the parameters measured on DWSP may not have exceeded drinking water guidelines during 1989, the water cannot be considered to be satisfactory until the conventional treatment process (addition of the prime coagulant eg. polyaluminum chloride) is routinely implemented.

RECOMMENDATIONS

One recommendation can be made;

1) Effective treatment should be provided to ensure safety and consistency in the quality of all waters. The current Ministry

policy (#15-14-01) requires that all surface waters shall use treatment processes consisting of coagulation-flocculation, filtration (or equivalent) and disinfection. Surface supplies without such treatment are subject to contamination with biological organisms, including algae, protozoa and other organisms that can cause taste and odour and other aesthetic problems in the distributed water.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP SAMPLE DAY CONDITIONS FOR 1989

SAMPLE DAY CONDITIONS			TREATMENT CHEMICAL DOSAGES (MG/L)			
			PRE-CHLORINATION	COAGULATION	FLUORIDATION	POST-CHLORINATION
			CHLORINE	POLYALUMINUM CHLORIDE	HYDROFLUOSILICIC ACID	CHLORINE
DATE	DELAY* TIME(HRS)	FLOW (1000M3)				
JAN 17	5.3	40.9	.10	.	1.10	.30
FEB 21	4.1	51.9	.10	.	1.00	.30
MAR 21	4.5	47.7	.10	.	.	.30
APR 18	3.9	55.0	.10	.	1.10	.30
MAY 16	4.7	45.4	.10	.	1.00	.30
JUN 20	4.3	50.0	.10	.	1.00	.30
JUL 18	4.0	54.5	.10	2.00	1.00	.50
AUG 22	4.1	52.2	.10	.71	1.00	.50
SEP 19	4.1	52.2	.10	.79	.90	.50
OCT 17	4.3	50.0	.10	.23	1.00	.40
NOV 21	5.6	38.6	.10	.	1.00	.30
DEC 19	6.0	36.3	.10	.	1.00	.30

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1			SITE 2		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	8	0	.	.	.	.	.	.	.	.	.
	STANDRD PLATE CNT MF	.	.	.	11	6	0	12	11	0	11	9	0
	TOTAL COLIFORM MF	12	7	0	11	1	0	12	0	0	11	0	0
	T COLIFORM BCKGRD MF	12	12	0	11	1	0	12	10	0	11	4	0
*TOTAL SCAN BACTERIOLOGICAL		36	27	0	33	8	0	36	21	0	33	13	0
*TOTAL GROUP BACTERIOLOGICAL		36	27	0	33	8	0	36	21	0	33	13	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	10	10	0	21	13	0	14	12	0
	FLD CHLORINE FREE	.	.	.	11	11	0	16	2	0	21	20	0
	FLD CHLORINE (TOTAL)	.	.	.	11	11	0	21	13	0	21	21	0
	FLD PH	12	12	0	11	11	0	24	24	0	21	21	0
	FLD TEMPERATURE	12	12	0	11	11	0	24	24	0	21	21	0
	FLD TURBIDITY	12	12	0	11	11	0	24	24	0	21	21	0
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	65	65	0	130	100	0	119	116	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	11	11	0	24	24	0	21	21	0
	CALCIUM	12	12	0	11	11	0	24	24	0	21	21	0
	CYANIDE	12	0	0	11	0	0	12	0	0	11	0	0
	CHLORIDE	12	12	0	11	11	0	24	24	0	21	21	0
	COLOUR	12	9	3	11	2	9	24	14	10	21	6	15
	CONDUCTIVITY	12	12	0	11	11	0	24	24	0	21	21	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHEMISTRY (LAB)	FLUORIDE	12	12	0	11	11	0	24	24	0	21	21	0
	HARDNESS	12	12	0	11	11	0	24	24	0	21	21	0
	IONCAL	12	12	0	11	11	0	24	24	0	21	21	0
	LANGELIERS INDEX	12	12	0	11	11	0	24	24	0	21	21	0
	MAGNESIUM	12	12	0	11	11	0	24	24	0	21	21	0
	SODIUM	12	12	0	11	11	0	24	24	0	21	21	0
	AMMONIUM TOTAL	12	2	5	11	1	2	24	12	7	21	2	5
	NITRITE	12	6	6	11	2	9	24	3	21	21	3	18
	TOTAL NITRATES	12	12	0	11	11	0	24	24	0	21	21	0
	NITROGEN TOT KJELD	12	12	0	11	11	0	24	24	0	21	21	0
	PH	12	12	0	11	11	0	24	24	0	21	21	0
	PHOSPHORUS FIL REACT	12	0	5	11	6	4	.	.	.	.	.	.
	PHOSPHORUS TOTAL	12	8	4	11	8	3	.	.	.	.	.	.
	SULPHATE	12	12	0	11	11	0	24	24	0	21	21	0
	TURBIDITY	12	12	0	11	11	0	24	24	0	21	21	0
*TOTAL SCAN CHEMISTRY (LAB)		252	205	23	231	184	27	444	389	38	389	326	38
METALS	SILVER	12	0	1	11	0	1	24	1	9	21	0	3
	ALUMINUM	12	12	0	11	11	0	24	24	0	21	21	0
	ARSENIC	12	6	6	11	9	2	24	18	6	21	17	4
	BARIUM	12	12	0	11	11	0	24	24	0	21	21	0
	BORON	12	12	0	11	11	0	24	24	0	21	21	0
	BERYLLIUM	12	0	8	11	0	6	24	0	20	21	0	14

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

		SITE											
		RAW			TREATED			SITE 1			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
METALS	CADMIUM	12	0	4	11	0	2	24	3	12	21	0	6
	COBALT	12	0	11	11	0	10	24	0	24	21	0	19
	CHROMIUM	12	9	3	11	7	4	24	21	2	21	15	4
	COPPER	12	11	1	11	9	2	24	23	1	21	21	0
	IRON	12	2	10	11	0	10	24	11	13	21	4	17
	MERCURY	12	0	3	11	1	1	12	1	1	11	4	1
	MANGANESE	12	12	0	11	11	0	24	24	0	21	21	0
	MOLYBDENUM	12	12	0	11	11	0	24	24	0	21	21	0
	NICKEL	12	2	9	11	2	8	24	6	17	21	13	7
	LEAD	12	9	3	11	5	6	24	24	0	21	18	3
	ANTIMONY	12	12	0	11	11	0	24	24	0	21	21	0
	SELENIUM	12	0	5	11	0	8	24	0	18	21	0	18
	STRONTIUM	12	12	0	11	11	0	24	24	0	21	21	0
	TITANIUM	12	11	1	11	9	2	24	22	2	21	18	3
	THALLIUM	12	0	5	11	0	3	24	0	9	21	0	6
	URANIUM	12	11	1	11	10	1	24	22	2	21	19	2
	VANADIUM	12	2	10	11	0	11	24	0	24	21	1	20
	ZINC	12	10	2	11	8	3	24	24	0	21	20	1
*TOTAL SCAN METALS		288	157	83	264	137	80	564	344	160	494	297	128
*TOTAL GROUP INORGANIC & PHYSICAL		576	398	106	560	386	107	1138	833	198	1002	739	166
CHLOROAROMATICS	HEXACHLOROBUTADIENE	12	0	0	11	0	0	12	0	0	11	0	0
	123 TRICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHLOROAROMATICS	1234 T-CHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	1235 T-CHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	124 TRICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	1245 T-CHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	135 TRICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	HCB	12	0	0	11	0	0	12	0	0	11	0	0
	HEXACHLOROETHANE	12	0	0	11	0	0	12	0	1	11	0	0
	OCTACHLOROSTYRENE	12	0	0	11	0	0	12	0	0	11	0	0
	PENTACHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	236 TRICHLOROTOLUENE	12	0	0	11	0	0	12	0	0	11	0	0
	245 TRICHLOROTOLUENE	12	0	0	11	0	0	12	0	0	11	0	0
	26A TRICHLOROTOLUENE	12	0	0	11	0	0	12	0	0	11	0	0
*TOTAL SCAN CHLOROAROMATICS		168	0	0	154	0	0	168	0	1	154	0	0
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
	2345 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
	2356 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
	245-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
	246-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
	PENTACHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.
*TOTAL SCAN CHLOROPHENOLS		12	0	0	12	0	0	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

		SITE											
		RAW			TREATED			SITE 1			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PAH	PHENANTHRENE	12	0	0	11	0	0	.	.	.	.	.	.
	ANTHRACENE	12	0	0	11	0	0	.	.	.	.	.	.
	FLUORANTHENE	12	0	0	11	0	0	.	.	.	.	.	.
	PYRENE	12	0	0	11	0	0	.	.	.	.	.	.
	BENZO(A)ANTHRACENE	12	0	0	11	0	0	.	.	.	.	.	.
	CHRYSENE	12	0	0	11	0	0	.	.	.	.	.	.
	DIMETH. BENZ(A)ANTHR	5	0	0	4	0	0	.	.	.	.	.	.
	BENZO(E) PYRENE	12	0	0	11	0	0	.	.	.	.	.	.
	BENZO(B) FLUORANTHEN	12	0	0	11	0	0	.	.	.	.	.	.
	PERYLENE	12	0	0	11	0	0	.	.	.	.	.	.
	BENZO(K) FLUORANTHEN	12	0	0	11	0	0	.	.	.	.	.	.
	BENZO(A) PYRENE	7	0	0	7	0	0	.	.	.	.	.	.
	BENZO(G,H,I) PERYLEN	12	0	0	11	0	0	.	.	.	.	.	.
	DIBENZO(A,H) ANTHRAC	12	0	0	11	0	0	.	.	.	.	.	.
	INDENO(1,2,3-C,D) PY	12	0	0	11	0	0	.	.	.	.	.	.
	BENZO(B) CHRYSENE	12	0	0	11	0	0	.	.	.	.	.	.
	CORONENE	12	0	0	11	0	0	.	.	.	.	.	.
*TOTAL SCAN PAH		192	0	0	176	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	12	0	0	11	0	0	12	0	0	11	0	0
	ALPHA BHC	12	0	7	11	0	8	12	0	7	11	0	4
	BETA BHC	12	0	0	11	0	0	12	0	0	11	0	0
	LINDANE	12	0	0	11	0	1	12	0	0	11	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PESTICIDES & PCB	ALPHA CHLORDANE	12	0	0	11	0	0	12	0	0	11	0	0
	GAMMA CHLORDANE	12	0	0	11	0	0	12	0	0	11	0	0
	DIELDRIN	12	0	0	11	0	0	12	0	0	11	0	0
	METHOXYCHLOR	12	0	0	11	0	0	12	0	0	11	0	0
	ENDOSULFAN I	12	0	0	11	0	0	12	0	0	11	0	0
	ENDOSULFAN II	12	0	0	11	0	0	12	0	0	11	0	0
	ENDRIN	12	0	0	11	0	0	12	0	0	11	0	0
	ENDOSULFAN SULPHATE	12	0	0	11	0	0	12	0	0	11	0	0
	HEPTACHLOR EPOXIDE	12	0	0	11	0	0	12	0	0	11	0	0
	HEPTACHLOR	12	0	0	11	0	0	12	0	0	11	0	0
	MIREX	12	0	0	11	0	0	12	0	0	11	0	0
	OXYCHLORDANE	12	0	0	11	0	0	12	0	0	11	0	0
	OPDDT	12	0	0	11	0	0	12	0	0	11	0	0
	PCB	12	0	0	11	0	0	12	0	0	11	0	0
	DDD	12	0	0	11	0	0	12	0	0	11	0	0
	PPDDE	12	0	0	11	0	0	12	0	0	11	0	0
	PPDDT	12	0	0	11	0	0	12	0	0	11	0	0
	AMETRINE	12	0	0	11	0	0	7	0	0	7	0	0
	ATRAZINE	12	0	1	11	0	1	7	0	1	7	0	1
	ATRATONE	12	0	0	11	0	0	7	0	0	7	0	0
	CYANAZINE (BLADEX)	12	0	1	11	0	1	7	0	0	7	0	0
	D-ETHYL ATRAZINE	12	0	0	11	0	0	7	0	0	7	0	0
	D-ETHYL SIMAZINE	12	0	0	11	0	0	7	0	0	7	0	0
	PROMETONE	12	0	0	11	0	0	7	0	0	7	0	0
	PROPAZINE	12	0	0	11	0	0	7	0	0	7	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

		SITE											
		RAW			TREATED			SITE 1			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	PROMETRYNE	12	0	0	11	0	0	7	0	0	7	0	0
	METRIBUZIN (SENCOR)	12	0	0	11	0	0	7	0	0	7	0	0
	SIMAZINE	12	0	0	11	0	0	7	0	0	7	0	0
	ALACHLOR (LASSO)	12	0	0	11	0	0	7	0	0	7	0	0
	METOLACHLOR	12	0	0	11	0	0	7	0	0	7	0	0
*TOTAL SCAN PESTICIDES & PCB		408	0	9	374	0	11	343	0	8	322	0	5
PHENOLICS	PHENOLICS	12	8	4	11	7	3	.	.	.	.	.	.
*TOTAL SCAN PHENOLICS		12	8	4	11	7	3	0	0	0	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	12	0	0	11	0	0	12	0	0	11	0	0
	2,4,5-T	2	0	0	2	0	0	.	.	.	.	.	.
	2,4-D	2	0	0	2	0	0	.	.	.	.	.	.
	2,4-DB	2	0	0	2	0	0	.	.	.	.	.	.
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	.	.	.	.	.	.
	DICAMBA	2	0	0	2	0	0	.	.	.	.	.	.
	PICHLORAM	0	0	0	0	0	0	.	.	.	.	.	.
	SILVEX	2	0	0	2	0	0	.	.	.	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.	.	.	.
	DICHLOROVOS	2	0	0	2	0	0	.	.	.	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
SPECIFIC PESTICIDES	ETHION	2	0	0	2	0	0	.	.	.	.	.	.
	AZINPHOS-METHYL	0	0	0	0	0	0	.	.	.	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.	.	.	.
	MEVINPHOS	2	0	0	2	0	0	.	.	.	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.	.	.	.
	PHORATE	2	0	0	2	0	0	.	.	.	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.	.	.	.
	RONNEL	2	0	0	2	0	0	.	.	.	.	.	.
	AMINOCARB	0	0	0	0	0	0	.	.	.	.	.	.
	BENOMYL	1	0	0	1	0	0	.	.	.	.	.	.
	BUX	0	0	0	0	0	0	.	.	.	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.	.	.	.
	CICP	2	0	0	2	0	0	.	.	.	.	.	.
	DIALLATE	2	0	0	2	0	0	.	.	.	.	.	.
	EPTAM	2	0	0	2	0	0	.	.	.	.	.	.
	IPC	2	0	0	2	0	0	.	.	.	.	.	.
	PROPOXUR	2	0	0	2	0	0	.	.	.	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.	.	.	.
*TOTAL SCAN SPECIFIC PESTICIDES		65	0	0	64	0	0	12	0	0	11	0	0
VOLATILES	BENZENE	12	0	0	11	0	0	12	0	2	11	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
VOLATILES	TOLUENE	12	0	5	11	0	5	12	0	7	11	0	3
	ETHYLBENZENE	12	0	1	11	0	6	12	0	4	11	0	1
	P-XYLENE	12	0	0	11	0	0	12	0	0	11	0	0
	M-XYLENE	12	0	0	11	0	2	12	0	1	11	0	0
	O-XYLENE	12	0	0	11	0	1	12	0	1	11	0	0
	STYRENE	12	0	4	11	0	10	12	0	12	11	0	10
	1,1 DICHLOROETHYLENE	12	0	0	11	0	0	12	0	0	11	0	0
	METHYLENE CHLORIDE	12	0	0	11	0	0	12	0	0	11	0	0
	T1,2DICHLOROETHYLENE	12	0	0	11	0	0	12	0	0	11	0	0
	1,1 DICHLOROETHANE	12	0	0	11	0	0	12	0	0	11	0	0
	CHLOROFORM	12	0	2	11	11	0	12	12	0	11	11	0
	111, TRICHLOROETHANE	12	0	1	11	0	1	12	0	0	11	0	1
	1,2 DICHLOROETHANE	12	0	0	11	0	0	12	0	0	11	0	0
	CARBON TETRACHLORIDE	12	0	0	11	0	0	12	0	0	11	0	0
	1,2 DICHLOROPROPANE	12	0	0	11	0	0	12	0	0	11	0	0
	TRICHLOROETHYLENE	12	0	0	11	0	0	12	0	0	11	0	0
	DICHLOROBROMOMETHANE	12	0	1	11	11	0	12	12	0	11	11	0
	112 TRICHLOROETHANE	12	0	0	11	0	0	12	0	0	11	0	0
	CHLORODIBROMOMETHANE	12	0	0	11	11	0	12	12	0	11	11	0
	T-CHLOROETHYLENE	12	0	0	11	0	2	12	0	1	11	0	0
	BROMOFORM	12	0	0	11	0	11	12	0	11	11	0	10
	1122 T-CHLOROETHANE	12	0	0	11	0	0	12	0	0	11	0	0
	CHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	1,4 DICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	1,3 DICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE	RAW			TREATED			SITE 1			SITE 2		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	1,2 DICHLOROBENZENE	12	0	0	11	0	0	12	0	0	11	0	0
	ETHLYENE DIBROMIDE	12	0	0	11	0	0	12	0	0	11	0	0
	TOTL TRIHALOMETHANES	12	0	0	11	11	0	12	12	0	11	11	0
*TOTAL SCAN VOLATILES		348	0	14	319	44	38	348	48	39	319	44	25
*TOTAL GROUP ORGANIC		1205	8	27	1110	51	52	871	48	48	806	44	30
TOTAL		1817	433	133	1703	445	159	2045	902	246	1841	796	196

KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 ^{0}C within 48 hours
2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria
5. Maximum Contaminant Level Goal (MCLG)

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IP	No Data: Insufficient Preservative
!IS	No Data: Insufficient Sample

!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
BACTERIOLOGICAL						
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 0 (A1)	
JAN	0	.	.	.	.	.
FEB	0 T48	.	.	.	.	.
MAR	0 T48	.	.	.	.	.
APR	0 T48	.	.	.	.	.
MAY	8	.	.	.	.	.
JUN	4	.	.	.	.	.
JUL	11	.	.	.	.	.
AUG	11	.	.	.	.	.
SEP	8	.	.	.	.	.
OCT	10	.	.	.	.	.
NOV	8	.	.	.	.	.
DEC	2	.	.	.	.	.
STANDRD PLATE CNT MF ( )			DET'N LIMIT = 0		GUIDELINE = 500/ML (A1)	
JAN	.	3 <=>	.	49 T48	.	14 T48
FEB	.	3 <=>	.	21 T24	.	2 <=>
MAR	.	17 T48	.	72 T24	.	12 T24
APR	.	22 T48	.	180 T48	.	19 T48
MAY	.	11	.	2830	.	1800
JUN	.	3 <=>	.	4200	.	24000 >
JUL	.	87	.	890	.	160
AUG	.	68	.	2400	.	1500
SEP	.	10	.	7300	.	24000 >
OCT	.	.	.	280	.	.
NOV	.	10 <=>	.	110	.	120
DEC	.	1 <=>	.	9 <=>	.	3 <=>
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML(A1)	
JAN	256 A3C	0	.	0 A3C	.	0 T48
FEB	24 T48	0 T48	.	0 T24	.	0 T24
MAR	300 A3C	0 T48	.	0 A3C	.	0 T24
APR	20 T48	0 T48	.	0 A3C	.	0 T48
MAY	36 A3C	0	.	0 A3C	.	0 A3C
JUN	BDL	0 A3C	.	0	.	0 A3C
JUL	36 A3C	0	.	0 A3C	.	0
AUG	80 <=>	0	.	BDL	.	0
SEP	80 <=>	0	.	0 A3C	.	0
OCT	130 A3C	.	.	0	.	.
NOV	200 <=>	1	.	0	.	0
DEC	BDL	0	.	0	.	0
T COLIFORM BCKGRD MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = N/A	
JAN	9600 >	0	.	980 A3C	.	0 T48
FEB	68 T48	0 T48	.	19 T24	.	0 T24
MAR	43200 A3C	0 T48	.	360 A3C	.	0 T24

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	232 T48	0 T48	.	310 A3C	.	0 T48
MAY	9600 >	0	.	2400 >	.	2400 >
JUN	00000 A3C	2400 >	.	1	.	2400 >
JUL	9600 >	0	.	380 A3C	.	0
AUG	42000 A3C	0	.	600 A3C	.	5
SEP	48000 >	0	.	2400 >	.	3
OCT	24000 >	.	.	2400 >	.	.
NOV	88000 A3C	0	.	0	.	0
DEC	170	0	.	0	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (FLD)						
FLD CHLORINE (COMB) ( )			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.	.200	.	.100	.100	.100
FEB	.	.200	.100	.200	.	.
MAR	.	.300	.100	.200	.	.
APR	.	.	.	.200	.	.
MAY	.	.100	.	.100	.	.200
JUN	.	.100	.000	.100	.	.000
JUL	.	.400	.000	.200	.000	.200
AUG	.	.200	.000	.000	.100	.100
SEP	.	.400	.000	.200	.100	.200
OCT	.	.	.000	.300	.	.
NOV	.	.100	.000	.200	.100	.200
DEC	.	.100	.000	.100	.100	.200
FLD CHLORINE FREE ( )			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.	.300	.	.	.100	.100
FEB	.	.100	.	.100	.100	.100
MAR	.	.300	.	.	.100	.100
APR	.	.300	.	.100	.100	.300
MAY	.	.400	.	.	.100	.100
JUN	.	.400	.000	.000	.	.100
JUL	.	.500	.000	.000	.100	.100
AUG	.	.500	.000	.000	.100	.100
SEP	.	.500	.000	.000	.100	.100
OCT	.	.	.000	.000	.	.
NOV	.	.400	.000	.000	.000	.100
DEC	.	.300	.000	.000	.100	.100
FLD CHLORINE (TOTAL) ( )			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.	.500	.	.100	.100	.100
FEB	.	.300	.100	.300	.100	.300
MAR	.	.300	.100	.200	.100	.100
APR	.	.300	.	.300	.100	.300
MAY	.	.500	.	.100	.100	.300
JUN	.	.500	.000	.100	.	.100
JUL	.	.900	.000	.200	.100	.300
AUG	.	.700	.000	.000	.200	.200
SEP	.	.900	.000	.200	.200	.300
OCT	.	.	.000	.300	.	.
NOV	.	.500	.000	.200	.100	.300
DEC	.	.400	.000	.100	.200	.300
FLD PH (DIMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)	
JAN	7.800	7.600	7.800	7.400	7.600	7.500
FEB	7.400	7.460	7.800	7.600	7.600	7.800
MAR	7.790	7.670	7.800	7.600	7.500	7.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	8.210	7.780	7.600	7.400	7.800	7.200
MAY	7.800	7.600	7.600	7.400	7.400	7.400
JUN	7.800	7.600	7.600	7.700	.	7.500
JUL	7.900	7.600	7.500	7.400	7.000	7.400
AUG	8.000	7.600	7.600	7.600	7.300	7.400
SEP	7.800	7.500	7.600	7.600	7.300	7.400
OCT	8.000	.	7.600	7.500	.	.
NOV	7.800	7.500	7.600	7.400	7.400	7.600
DEC	7.800	7.500	7.600	7.400	7.400	7.600
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A1)	
JAN	1.500	1.000	16.000	4.000	15.000	12.000
FEB	2.000	3.000	18.000	3.000	15.000	6.000
MAR	2.000	3.000	16.000	2.500	15.000	5.000
APR	4.500	4.500	17.000	4.500	17.000	5.000
MAY	8.500	8.500	17.500	9.000	17.000	7.000
JUN	16.000	16.000	21.500	15.000	.	13.000
JUL	21.000	21.000	22.000	19.500	17.000	16.000
AUG	22.800	23.000	23.000	21.500	20.000	18.000
SEP	19.600	20.100	21.500	20.000	20.000	18.000
OCT	13.000	.	19.500	15.500	.	.
NOV	8.000	7.500	15.000	10.500	15.000	12.000
DEC	2.000	1.000	13.000	6.000	13.000	8.000
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)	
JAN	.550	.350	.340	.770	.450	.700
FEB	.500	.350	.600	.340	.400	.500
MAR	.700	.430	.430	.400	.370	.430
APR	1.250	.480	.590	.570	.500	.540
MAY	1.400	.500	.580	.550	.560	.510
JUN	2.050	.600	.510	.720	.	.710
JUL	1.150	.180	.340	.250	.390	.450
AUG	.480	.210	.240	.220	.250	.230
SEP	1.000	.420	.590	.620	.400	.330
OCT	.470	.	.320	.320	.	.
NOV	.640	.600	.790	.800	.840	.840
DEC	.490	.410	.370	.500	.380	.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (LAB)						
ALKALINITY (MG/L)			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)	
JAN	101.000	97.900	99.200	98.100	98.400	98.100
FEB	102.100	101.000	100.600	101.000	100.800	100.600
MAR	102.800	101.200	102.200	102.000	102.500	100.800
APR	97.300	92.700	94.400	93.100	93.400	93.000
MAY	99.800	95.500	97.300	95.700	96.500	96.100
JUN	96.400	93.400	91.900	91.500	.	92.400
JUL	101.600	96.600	96.900	96.100	96.400	96.500
AUG	95.200	90.600	90.100	90.100	90.700	90.600
SEP	94.100	89.000	89.300	89.300	90.000	89.300
OCT	96.200	.	92.200	92.800	.	.
NOV	100.100	95.100	95.400	95.700	96.000	95.200
DEC	102.100	97.800	98.300	98.300	97.400	98.300
CALCIUM (MG/L)			DET'N LIMIT = .100		GUIDELINE = 100 (F2)	
JAN	39.000	39.400	39.400	38.600	39.200	39.600
FEB	40.400	40.000	40.800	40.000	39.800	40.000
MAR	42.800	43.000	43.400	42.800	42.800	43.200
APR	38.600	38.000	38.400	39.400	38.600	39.600
MAY	39.200	38.800	39.200	39.400	39.000	39.800
JUN	40.000	39.600	40.400	40.800	.	41.000
JUL	38.400	39.800	39.600	38.200	38.600	39.000
AUG	37.800	37.600	38.000	37.600	37.200	37.400
SEP	36.600	36.400	37.200	37.800	36.200	37.000
OCT	37.600	.	37.800	37.600	.	.
NOV	39.800	39.200	39.400	39.000	40.000	39.600
DEC	40.400	41.200	39.600	39.600	39.700	40.500
CHLORIDE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 250 (A3)	
JAN	22.900	23.500	24.000	23.600	23.800	23.500
FEB	22.500	23.500	23.500	23.400	23.500	23.400
MAR	22.200	22.900	23.100	22.900	23.200	22.900
APR	21.100	22.300	23.000	22.300	22.300	22.300
MAY	21.900	23.000	22.900	22.900	23.000	23.000
JUN	21.300	22.800	22.800	22.700	.	22.800
JUL	21.500	23.700	23.700	23.700	23.800	23.600
AUG	21.800	23.800	23.800	23.800	23.800	23.700
SEP	21.800	23.700	23.700	23.800	24.100	23.900
OCT	22.300	.	23.500	23.400	.	.
NOV	21.700	22.600	22.800	22.900	22.900	22.700
DEC	22.200	22.900	22.800	22.800	23.200	23.000
COLOUR (HZU)			DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)	
JAN	1.500 <T	1.000 <T	1.500 <T	1.500 <T	1.500 <T	1.500 <T
FEB	2.000 <T	1.000 <T	2.500	1.500 <T	1.500 <T	1.500 <T
MAR	2.500	1.500 <T	2.500	2.000 <T	2.000 <T	2.500

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	3.500	2.500	3.500	3.000	2.500	3.000
MAY	3.500	2.000 <T	3.000	3.000	2.500	2.500
JUN	4.500	3.000	3.500	3.000	.	3.000
JUL	3.000	1.000 <T	2.500	2.500	2.000 <T	2.000 <T
AUG	2.500	1.500 <T	2.000 <T	1.500 <T	1.500 <T	1.500 <T
SEP	2.000 <T	1.000 <T	2.000 <T	2.000 <T	1.500 <T	1.500 <T
OCT	2.500	.	3.000	2.500	.	.
NOV	2.500	1.500 <T	2.000 <T	1.500 <T	1.500 <T	1.500 <T
DEC	2.500	1.500 <T	2.500	3.500	1.500 <T	2.000 <T
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)	
JAN	324	325	330	325	326	326
FEB	325	327	332	327	345	326
MAR	335	334	337	335	337	332
APR	316	318	324	318	319	318
MAY	317	318	322	318	320	320
JUN	313	315	324	315	.	315
JUL	316	318	327	319	319	319
AUG	305	310	312	307	309	309
SEP	310	312	317	312	314	313
OCT	319	.	328	320	.	.
NOV	320	321	327	323	323	322
DEC	329	330	336	330	330	331
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)	
JAN	.120	.860	.920	.860	.920	.880
FEB	.120	.120	.240	.160	.260	.200
MAR	.120	.120	.120	.120	.140	.140
APR	.140	1.140	1.160	1.120	1.120	1.120
MAY	.120	1.200	1.240	1.180	1.220	1.200
JUN	.120	1.160	1.220	1.180	.	1.180
JUL	.140	1.100	1.180	1.120	1.200	1.160
AUG	.100	1.140	1.180	1.160	1.160	1.160
SEP	.120	1.300	1.280	1.280	1.280	1.300
OCT	.120	.	1.320	1.340	.	.
NOV	.120	1.300	1.360	1.360	1.400	1.400
DEC	.120	1.320	1.360	1.360	1.360	1.360
HARDNESS (MG/L)			DET'N LIMIT = .500		GUIDELINE = 80-100 (A4)	
JAN	133.000	133.000	135.000	132.000	133.000	134.000
FEB	136.000	135.000	137.000	134.000	135.000	135.000
MAR	142.000	142.000	143.000	142.000	143.000	144.000
APR	131.000	130.000	132.000	134.000	132.000	134.000
MAY	132.000	130.000	132.000	132.000	131.000	133.000
JUN	133.000	132.000	135.000	135.000	.	136.000
JUL	131.000	134.000	133.000	129.000	130.000	132.000
AUG	130.000	129.000	130.000	129.000	128.000	128.000

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	126.000	125.000	127.000	129.000	124.000	126.000
OCT	128.000	.	128.000	128.000	.	.
NOV	135.000	133.000	133.000	132.000	135.000	134.000
DEC	135.600	137.700	133.100	133.500	133.400	136.200
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	1.566	.690	.379	1.189	.371	.772
FEB	.815	.971	.319	.665	1.015	.548
MAR	4.157	4.728	4.073	3.312	3.361	4.813
APR	1.700	2.392	1.980	5.021	3.293	5.021
MAY	1.287	.119	.010	1.172	.649	1.684
JUN	5.477	4.686	6.449	9.932	.	8.684
JUL	.421	2.114	.856	.554	.270	.090
AUG	.538	1.647	2.131	1.367	.842	1.034
SEP	.118	.455	1.553	3.516	.333	1.455
OCT	1.506	.	.186	.022	.	.
NOV	.869	2.356	1.595	1.568	2.850	2.807
DEC	3.092	.479	3.624	2.794	2.493	1.313
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.302	.273	.268	.214	.262	.195
FEB	.402	.372	.349	.342	.328	.371
MAR	.589	.554	.592	.605	.597	.594
APR	.332	.204	.266	.261	.224	.273
MAY	.499	.466	.488	.483	.482	.479
JUN	.254	.145	.166	.179	.	.216
JUL	.468	.432	.400	.382	.397	.412
AUG	.355	.270	.322	.328	.316	.318
SEP	.275	.238	.248	.286	.240	.236
OCT	.325	.	.168	.219	.	.
NOV	.407	.238	.281	.288	.311	.393
DEC	.481	.371	.365	.526	.423	.506
MAGNESIUM (MG/L)			DET'N LIMIT = .050		GUIDELINE = 30 (F2)	
JAN	8.600	8.500	8.800	8.600	8.600	8.600
FEB	8.500	8.400	8.500	8.500	8.600	8.400
MAR	8.500	8.500	8.600	8.500	8.900	8.700
APR	8.500	8.500	8.700	8.600	8.500	8.500
MAY	8.200	8.200	8.400	8.200	8.100	8.200
JUN	8.100	8.000	8.300	8.200	.	8.200
JUL	8.600	8.500	8.300	8.300	8.200	8.300
AUG	8.600	8.500	8.600	8.400	8.500	8.500
SEP	8.300	8.300	8.300	8.500	8.200	8.200
OCT	8.200	.	8.200	8.300	.	.
NOV	8.600	8.500	8.500	8.400	8.500	8.600
DEC	8.450	8.500	8.300	8.450	8.350	8.500

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SODIUM (MG/L)			DET'N LIMIT = .200		GUIDELINE = 200 (C3)	
JAN	12.000	12.400	12.200	11.800	12.200	12.200
FEB	11.600	11.400	11.400	11.400	11.400	11.600
MAR	12.400	12.200	11.800	11.800	11.600	11.600
APR	11.400	11.200	11.800	11.400	11.600	11.400
MAY	11.200	11.200	11.400	11.400	11.200	11.600
JUN	12.200	11.800	11.800	12.400	.	11.800
JUL	12.200	11.800	12.200	11.800	12.200	11.400
AUG	11.400	11.800	11.800	11.600	11.800	11.600
SEP	12.600	12.000	12.400	12.400	12.600	12.400
OCT	12.000	.	12.200	12.000	.	.
NOV	11.600	11.600	11.600	12.000	11.600	11.600
DEC	10.200	10.100	10.200	10.000	10.000	9.900
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)	
JAN	.008 <T	.010	.004 <T	.010	.010	.010
FEB	BDL	BDL	.240	.016	.002 <T	.002 <T
MAR	.022	BDL	BDL	.004 <T	BDL	BDL
APR	.010	.006 <T	.002 <T	.016	.004 <T	.006 <T
MAY	.006 <T	.006 <T	BDL	.004 <T	BDL	BDL
JUN	BDL	BDL	.410	.018	.	BDL
JUL	.004 <T	BDL	.358	.008 <T	BDL	BDL
AUG	.002 <T	BDL	.200	BDL	BDL	.002 <T
SEP	BDL	BDL	.250	.004 <T	BDL	BDL
OCT	.002 <T	.	.402	BDL	.	.
NOV	BDL	BDL	.394	BDL	BDL	BDL
DEC	BDL	BDL	.330	.002 <T	BDL	BDL
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)	
JAN	.002 <T	.001 <T	.001 <T	.001 <T	.001 <T	.001 <T
FEB	.004 <T	.002 <T	.003 <T	.003 <T	.003 <T	.002 <T
MAR	.007	.007	.004 <T	.005	.003 <T	.003 <T
APR	.003 <T	.001 <T	.002 <T	.001 <T	.001 <T	.001 <T
MAY	.005	.003 <T	.004 <T	.003 <T	.002 <T	.002 <T
JUN	.003 <T	.002 <T	.003 <T	.002 <T	.	.002 <T
JUL	.009	.004 <T	.004 <T	.004 <T	.005	.004 <T
AUG	.011	.006	.006	.005	.008	.007
SEP	.001 <T	.001 <T	.002 <T	.001 <T	.002 <T	.001 <T
OCT	.003 <T	.	.002 <T	.001 <T	.	.
NOV	.011	.002 <T	.002 <T	.001 <T	.002 <T	.001 <T
DEC	.008	.002 <T	.003 <T	.001 <T	.002 <T	.002 <T
TOTAL NITRATES (MG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)	
JAN	.295	.300	.325	.305	.340	.305
FEB	.330	.335	.950	.360	.340	.335
MAR	.355	.350	.395	.365	.340	.345
APR	.270	.265	.340	.280	.265	.260

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	.285	.285	.305	.290	.285	.285
JUN	.285	.220	1.200	.265	.	.160
JUL	.220	.190	.870	.235	.190	.180
AUG	.125	.105	.585	.140	.090	.105
SEP	.185	.140	.655	.200	.140	.140
OCT	.180	.	.950	.195	.	.
NOV	.255	.220	.855	.250	.215	.220
DEC	.290	.275	.815	.305	.270	.280
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = .020		GUIDELINE = N/A	
JAN	.210	.190	.220	.200	.200	.190
FEB	.220	.200	.490	.210	.210	.200
MAR	.260	.210	.250	.220	.210	.220
APR	.260	.240	.270	.230	.260	.220
MAY	.280	.250	.300	.220	.240	.230
JUN	.340	.230	.880	.270	.	.230
JUL	.300	.200	.670	.240	.240	.220
AUG	.260	.230	.450	.230	.240	.220
SEP	.290	.220	.500	.260	.230	.240
OCT	.240	.	.730	.180	.	.
NOV	.230	.210	.780	.260	.210	.210
DEC	.240	.270	.580	.250	.220	.230
PH (DIMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)	
JAN	8.150	8.130	8.120	8.080	8.120	8.050
FEB	8.230	8.210	8.180	8.180	8.170	8.210
MAR	8.390	8.360	8.390	8.410	8.400	8.400
APR	8.200	8.100	8.150	8.140	8.110	8.150
MAY	8.350	8.340	8.350	8.350	8.350	8.340
JUN	8.110	8.020	8.040	8.050	.	8.080
JUL	8.320	8.290	8.260	8.260	8.270	8.280
AUG	8.240	8.180	8.230	8.240	8.230	8.230
SEP	8.180	8.170	8.170	8.200	8.170	8.160
OCT	8.210	.	8.070	8.120	.	.
NOV	8.250	8.110	8.150	8.160	8.170	8.260
DEC	8.310	8.210	8.220	8.380	8.280	8.350
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = .0005		GUIDELINE = N/A	
JAN	.000 <T	.002	.	.	.	.
FEB	BDL	.001 <T	.	.	.	.
MAR	.000 <T	.000 <T	.	.	.	.
APR	BDL	.008	.	.	.	.
MAY	BDL	.010	.	.	.	.
JUN	.002 <T	.004	.	.	.	.
JUL	.001 <T	.001 <T	.	.	.	.
AUG	BDL	.002	.	.	.	.
SEP	BDL	.008	.	.	.	.

TABLE =

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	.000 <T	.	.	.	.	.
NOV	BDL	BDL	.	.	.	.
DEC	BDL	.001 <T	.	.	.	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)	
JAN	.007 <T	.007 <T	.	.	.	.
FEB	.006 <T	.005 <T	.	.	.	.
MAR	.010	.008 <T	.	.	.	.
APR	.010	.017	.	.	.	.
MAY	.011	.015	.	.	.	.
JUN	.035	.033	.	.	.	.
JUL	.016	.016	.	.	.	.
AUG	.011	.019	.	.	.	.
SEP	.024	.023	.	.	.	.
OCT	.006 <T	.	.	.	.	.
NOV	.006 <T	.011	.	.	.	.
DEC	.012	.017	.	.	.	.
SULPHATE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 500. (A3)	
JAN	25.910	26.020	26.400	25.760	26.120	26.150
FEB	23.720	24.370	24.800	24.410	24.940	24.670
MAR	25.610	25.360	25.440	25.390	25.630	25.640
APR	24.480	24.480	25.150	24.420	24.740	24.630
MAY	25.170	25.100	25.390	24.950	24.990	25.040
JUN	22.990	23.080	23.000	22.520	.	22.740
JUL	24.670	24.890	24.940	24.630	24.500	24.660
AUG	26.200	26.330	26.460	26.280	26.490	26.460
SEP	26.120	26.380	26.320	26.300	26.400	26.250
OCT	26.590	.	26.510	26.460	.	.
NOV	25.860	25.580	25.750	25.600	25.470	25.990
DEC	27.060	26.800	27.490	26.980	26.830	26.760
TURBIDITY (FTU)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)	
JAN	.670	.620	.630	.630	.610	.490
FEB	.880	.760	.780	.740	.600	.400
MAR	.740	.520	.710	.880	.540	.830
APR	1.200	.760	.790	.930	.770	.830
MAY	1.520	.950	.920	.920	.610	.980
JUN	5.200	.850	1.260 RRV	.940	.	.870
JUL	2.200	.410	.640	.840	.750	.670
AUG	2.600	.640	1.340	1.210	.700	.880
SEP	3.800	.750	.680	.680	.350	.360
OCT	.950	.	.890	.480	.	.
NOV	1.580	1.340	1.020	.980	.920	.980
DEC	.690	.370	.650	.600	.560	.480

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
METALS						
SILVER (UG/L)				DET'N LIMIT = .020	GUIDELINE = 50. (A1)	
JAN	BDL	BDL	BDL	BDL	BDL	BDL
FEB	BDL	BDL	BDL	BDL	BDL	BDL
MAR	BDL	BDL	.430 <T	.040 <T	.090 <T	BDL
APR	.040 <T	.040 <T	.080 <T	BDL	BDL	BDL
MAY	BDL	BDL	.040 <T	BDL	.050 <T	.140 <T
JUN	BDL	BDL	.080 <T	BDL	.	BDL
JUL	BDL	BDL	3.860	.040 <T	BDL	BDL
AUG	BDL	BDL	.060 <T	.030 <T	BDL	BDL
SEP	BDL	BDL	BDL	BDL	BDL	BDL
OCT	BDL	.	.050 <T	BDL	.	.
NOV	BDL	BDL	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL	BDL	BDL
ALUMINUM (UG/L)				DET'N LIMIT = .050	GUIDELINE = 100.(A4)	
JAN	9.860	7.772	30.160	16.240	25.520	16.240
FEB	6.264	6.960	37.120	17.400	25.520	17.400
MAR	8.932	8.932	34.800	19.720	33.640	23.200
APR	12.760	19.720	25.520	20.880	23.200	19.720
MAY	29.000	27.840	59.160	51.040	73.080	53.360
JUN	81.000	25.000	66.000	49.000	.	46.000
JUL	40.560	239.610	126.630	128.210	134.510	149.100
AUG	26.000	200.000	170.000	190.000	180.000	190.000
SEP	83.000	160.000	150.000	140.000	150.000	150.000
OCT	18.000	.	130.000	110.000	.	.
NOV	24.000	28.000	68.000	49.000	74.000	49.000
DEC	8.600	9.000	30.000	21.000	26.000	16.000
ARSENIC (UG/L)				DET'N LIMIT = 0.050	GUIDELINE = 50.0 (A1)	
JAN	.830 <T	.850 <T	1.000 <T	.890 <T	.930 <T	.630 <T
FEB	1.200	1.300	1.300	.950 <T	1.600	1.000 <T
MAR	1.700	1.700	1.700	1.400	1.700	1.600
APR	.930 <T	1.200	1.400	1.500	1.400	1.400
MAY	1.600	1.600	1.800	1.800	1.500	1.900
JUN	.580 <T	.930 <T	.710 <T	.730 <T	.	.750 <T
JUL	1.650	1.970	1.600	1.440	1.590	1.690
AUG	1.200	1.800	1.700	1.700	1.800	1.700
SEP	1.200	1.900	1.900	1.600	1.700	1.600
OCT	.860 <T	.	1.400	1.200	.	.
NOV	.910 <T	1.300	1.100	1.200	1.400	1.300
DEC	.820 <T	1.200	.990 <T	1.400	1.300	1.200
BARIUM (UG/L)				DET'N LIMIT = 0.020	GUIDELINE = 1000. (A1)	
JAN	25.000	25.000	26.000	25.000	26.000	24.000
FEB	25.000	26.000	27.000	24.000	26.000	24.000
MAR	23.000	23.000	27.000	24.000	25.000	24.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	23.000	23.000	25.000	23.000	26.000	24.000
MAY	23.000	22.000	24.000	22.000	24.000	22.000
JUN	25.000	24.000	26.000	23.000	.	24.000
JUL	25.410	25.660	25.390	25.560	25.970	25.510
AUG	23.000	23.000	23.000	22.000	23.000	23.000
SEP	26.000	25.000	25.000	24.000	24.000	23.000
OCT	24.000	.	24.000	23.000	.	.
NOV	24.000	23.000	24.000	23.000	23.000	23.000
DEC	25.000	24.000	24.000	24.000	25.000	24.000
BORON (UG/L)				DET'N LIMIT = 0.200 GUIDELINE = 5000. (A1)		
JAN	51.000	45.000	51.000	53.000	48.000	29.000
FEB	25.000	69.000	54.000	79.000	29.000	26.000
MAR	100.000	92.000	99.000	94.000	100.000	87.000
APR	60.000	31.000	210.000	170.000	140.000	170.000
MAY	38.000	24.000	38.000	41.000	25.000	38.000
JUN	42.000	42.000	42.000	31.000	.	30.000
JUL	55.040	54.890	54.100	53.910	54.230	52.360
AUG	55.000	57.000	58.000	56.000	55.000	57.000
SEP	47.000	48.000	49.000	48.000	50.000	37.000
OCT	33.000	.	32.000	32.000	.	.
NOV	29.000	28.000	28.000	28.000	27.000	27.000
DEC	27.000	28.000	27.000	26.000	27.000	27.000
BERYLLIUM (UG/L)				DET'N LIMIT = 0.010 GUIDELINE = N/A		
JAN	.260 <T	.280 <T	.260 <T	.300 <T	.390 <T	.240 <T
FEB	BDL	BDL	.030 <T	.270 <T	BDL	BDL
MAR	.260 <T	.320 <T	.100 <T	.400 <T	.310 <T	.040 <T
APR	BDL	BDL	.370 <T	.160 <T	.050 <T	.080 <T
MAY	.090 <T	BDL	BDL	.060 <T	BDL	.060 <T
JUN	.050 <T	.110 <T	.050 <T	.050 <T	.	BDL
JUL	.130 <T	.090 <T	.100 <T	.020 <T	.060 <T	.070 <T
AUG	.090 <T	.150 <T	.080 <T	.140 <T	.110 <T	.030 <T
SEP	.100 <T	.080 <T	.040 <T	.080 <T	.110 <T	.040 <T
OCT	.040 <T	.	.030 <T	.020 <T	.	.
NOV	BDL	BDL	BDL	.050 <T	.030 <T	BDL
DEC	BDL	BDL	BDL	BDL	BDL	BDL
CADMIUM (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1)		
JAN	BDL	BDL	BDL	BDL	BDL	BDL
FEB	.060 <T	BDL	.530	.120 <T	BDL	.120 <T
MAR	BDL	BDL	.150 <T	BDL	BDL	BDL
APR	BDL	.060 <T	.140 <T	BDL	.070 <T	.070 <T
MAY	.090 <T	BDL	BDL	BDL	BDL	BDL
JUN	.140 <T	.060 <T	.960	.190 <T	.	BDL
JUL	.060 <T	BDL	.870	.110 <T	.070 <T	BDL
AUG	BDL	BDL	.480 <T	.220 <T	.070 <T	.070 <T

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	BDL	.320 <T	BDL	BDL	BDL
OCT	BDL	.	.340 <T	BDL	.	.
NOV	BDL	BDL	.300 <T	BDL	BDL	BDL
DEC	BDL	BDL	.060 <T	.070 <T	BDL	BDL
COBALT (UG/L)			DET'N LIMIT = 0.020 GUIDELINE = N/A			
JAN	.160 <T	.140 <T	.140 <T	.140 <T	.260 <T	.170 <T
FEB	.170 <T	.220 <T	.180 <T	.180 <T	.200 <T	.230 <T
MAR	BDL	.120 <T	.070 <T	.110 <T	.180 <T	.190 <T
APR	.050 <T	.070 <T	.050 <T	.060 <T	.070 <T	.110 <T
MAY	.180 <T	.280 <T	.300 <T	.300 <T	.270 <T	.240 <T
JUN	.150 <T	.070 <T	.120 <T	.060 <T	.	.160 <T
JUL	.220 <T	.190 <T	.200 <T	.170 <T	.250 <T	.160 <T
AUG	.080 <T	.070 <T	.050 <T	.080 <T	.040 <T	BDL
SEP	.160 <T	.070 <T	.050 <T	.050 <T	.050 <T	BDL
OCT	.040 <T	.	.120 <T	.040 <T	.	.
NOV	.060 <T	BDL	.060 <T	.040 <T	.050 <T	.080 <T
DEC	.110 <T	.140 <T	.060 <T	.180 <T	.070 <T	.050 <T
CHROMIUM (UG/L)			DET'N LIMIT = 0.100 GUIDELINE = 50. (A1)			
JAN	5.200	4.300	5.400	5.400	4.800	1.100
FEB	.450 <T	4.900	5.000	5.900	.870 <T	.440 <T
MAR	7.600	6.900	6.800	6.800	7.300	6.100
APR	1.300	.460 <T	6.500	5.200	4.300	5.400
MAY	7.000	.600 <T	6.800	7.200	1.600	7.100
JUN	5.500	5.100	11.000	2.400	.	2.300
JUL	6.360	6.130	6.330	6.320	5.820	5.380
AUG	4.600	4.300	5.000	4.200	4.300	4.300
SEP	6.100	6.200	6.600	6.100	6.300	3.000
OCT	3.100	.	3.600	2.800	.	.
NOV	.320 <T	.390 <T	2.100	.360 <T	.280 <T	.360 <T
DEC	1.300 <T	1.400 <T	1.400 <T	BDL	BDL	BDL
COPPER (UG/L)			DET'N LIMIT = .100 GUIDELINE = 1000 (A3)			
JAN	1.300	1.800	60.000	3.800	90.000	14.000
FEB	1.300	1.400	61.000	3.800	99.000	7.600
MAR	1.300	1.400	41.000	3.500	72.000	12.000
APR	1.300	1.300	73.000	4.800	140.000	10.000
MAY	1.200	1.100	75.000	4.300	94.000	6.300
JUN	1.800	1.500	82.000	6.000	.	19.000
JUL	1.320	1.270	77.060	5.690	66.050	6.400
AUG	1.100	1.200	61.000	4.800	42.000	4.800
SEP	1.300	1.000 <T	70.000	4.700	50.000	5.900
OCT	1.200	.	53.000	4.000	.	.
NOV	1.100	1.100	65.000	3.800	49.000	6.300
DEC	.910 <T	1.100 <T	50.000	3.900 <T	110.000	7.700

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
IRON (UG/L)				DET'N LIMIT = 4.000 GUIDELINE = 300. (A3)		
JAN	26.000 <T	17.000 <T	65.000	80.000	62.000	65.000
FEB	16.000 <T	19.000 <T	67.000	45.000 <T	32.000 <T	38.000 <T
MAR	17.000 <T	11.000 <T	35.000 <T	20.000 <T	20.000 <T	45.000 <T
APR	15.000 <T	16.000 <T	60.000	75.000	40.000 <T	55.000
MAY	27.000 <T	13.000 <T	58.000	80.000	29.000 <T	43.000 <T
JUN	110.000	22.000 <T	48.000 <T	62.000	.	75.000
JUL	42.420 <T	BDL	63.700	45.820 <T	32.150 <T	32.420 <T
AUG	29.000 <T	7.900 <T	33.000 <T	30.000 <T	22.000 <T	25.000 <T
SEP	110.000	11.000 <T	36.000 <T	40.000 <T	15.000 <T	17.000 <T
OCT	22.000 <T	.	55.000	20.000 <T	.	.
NOV	24.000 <T	18.000 <T	33.000 <T	40.000 <T	26.000 <T	35.000 <T
DEC	9.400 <T	10.000 <T	44.000 <T	120.000	26.000 <T	29.000 <T
MERCURY (UG/L)				DET'N LIMIT = 0.010 GUIDELINE = 1.000 (A1)		
JAN	BDL	BDL	.	BDL	.	.160
FEB	.030 <T	BDL	.	BDL	.	.180
MAR	.050 <T	.060	.	.060	.	.230
APR	BDL	BDL	.	BDL	.	.110
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	.020 <T	.020 <T	.	.020 <T	.	.020 <T
MANGANESE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 50.0 (A3)		
JAN	1.400	.910	3.000	3.200	2.400	2.200
FEB	1.100	.770	2.900	2.100	1.500	1.700
MAR	2.200	1.500	2.700	2.200	2.100	2.400
APR	2.600	1.300	3.100	3.200	2.500	2.400
MAY	3.600	1.600	4.300	5.800	3.900	3.400
JUN	15.000	2.600	5.700	5.500	.	4.300
JUL	6.460	.510	12.010	3.220	3.210	2.480
AUG	4.300	.930	2.900	2.800	2.100	2.000
SEP	18.000	1.800	3.700	4.300	2.700	2.400
OCT	2.300	.	4.700	2.500	.	.
NOV	2.300	1.300	2.700	2.900	2.200	2.200
DEC	1.600	1.100	2.300	4.000	1.800	1.900
MOLYBDENUM (UG/L)				DET'N LIMIT = 0.020 GUIDELINE = N/A		
JAN	1.200	1.200	1.100	1.200	1.200	1.100
FEB	1.300	1.300	1.400	1.400	1.300	1.300
MAR	1.600	1.400	1.600	1.500	1.700	1.400
APR	1.100	1.200	1.200	1.300	1.300	1.400

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	1.300	1.400	1.400	1.300	1.300	1.400
JUN	1.300	1.500	1.300	1.400	.	1.300
JUL	1.490	1.660	1.380	1.440	1.510	1.580
AUG	1.300	1.300	1.300	1.300	1.300	1.400
SEP	1.100	1.300	1.200	1.300	1.200	1.300
OCT	1.300	.	1.200	1.200	.	.
NOV	1.100	1.100	1.200	1.100	1.200	1.200
DEC	1.100	1.100	1.200	1.200	1.200	1.300
NICKEL (UG/L)				DET'N LIMIT = 0.100 GUIDELINE = 50. (F3)		
JAN	1.800 <T	1.500 <T	2.600	1.900 <T	100.000	2.300
FEB	.340 <T	.650 <T	1.300 <T	.960 <T	12.000	.950 <T
MAR	1.300 <T	1.900 <T	1.300 <T	1.400 <T	7.200	1.900 <T
APR	1.100 <T	.720 <T	1.300 <T	1.100 <T	3.400	.800 <T
MAY	3.300	2.800	3.700	3.100	6.000	3.500
JUN	BDL	BDL	.620 <T	BDL	.	BDL
JUL	2.820	2.850	4.860	2.860	18.650	2.840
AUG	1.200 <T	1.200 <T	1.700 <T	.920 <T	3.400	.910 <T
SEP	1.800 <T	1.400 <T	1.700 <T	1.100 <T	2.600	1.300 <T
OCT	.470 <T	.	1.900 <T	.620 <T	.	.
NOV	1.600 <T	1.700 <T	2.200	1.200 <T	2.500	1.400 <T
DEC	.370 <T	.540 <T	1.000 <T	.980 <T	3.000	1.200 <T
LEAD (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 50. (A1)		
JAN	.380	.220	8.400	.610	1.500	.320
FEB	.650	.310	6.100	.740	2.000	.150 <T
MAR	.210	.340	4.000	.830	1.600	.700
APR	.200 <T	.120 <T	5.500	.700	3.200	.480
MAY	.390	.180 <T	6.000	.800	2.200	1.200
JUN	.690	.210	8.800	.870	.	4.100
JUL	.380	.240	9.210	1.370	2.070	.530
AUG	.390	.150 <T	7.300	.890	1.500	.380
SEP	.570	.100 <T	6.500	.630	1.200	.350
OCT	.660	.	5.800	.560	.	.
NOV	.080 <T	.060 <T	5.400	.570	1.100	.190 <T
DEC	.110 <T	.240 <T	5.600	.540	1.300	.140 <T
ANTIMONY (UG/L)				DET'N LIMIT = .050 GUIDELINE = 146. (D4)		
JAN	.520	.520	.530	.460	.530	.410
FEB	1.000	1.000	.830	1.000	.880	1.100
MAR	.870	.830	.810	.810	.920	.900
APR	.680	.780	.770	.810	.720	.630
MAY	1.000	1.100	1.200	1.200	1.200	1.200
JUN	.840	.960	.970	.860	.	.980
JUL	.920	.800	.850	.860	.970	1.020
AUG	.820	.780	.830	.890	.780	.760
SEP	.590	.710	.690	.610	.520	.640

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	.570	.	.580	.590	.	.
NOV	.470	.500	.550	.510	.510	.500
DEC	.530	.670	.580	.740	.670	.680
SELENIUM (UG/L) DET'N LIMIT = 0.200 GUIDELINE = 10. (A1)						
JAN	BDL	BDL	1.200 <T	1.200 <T	1.600 <T	1.200 <T
FEB	.360 <T	1.400 <T	2.300 <T	.650 <T	2.100 <T	1.200 <T
MAR	1.200 <T	1.800 <T	4.000 <T	2.100 <T	5.400 <T	4.100 <T
APR	.780 <T	3.400 <T	4.800 <T	4.800 <T	3.100 <T	4.300 <T
MAY	1.900 <T	3.600 <T	4.900 <T	5.500 <T	7.700 <T	7.800 <T
JUN	2.200 <T	3.800 <T	3.400 <T	3.600 <T	.	4.000 <T
JUL	BDL	1.970 <T	1.030 <T	4.450 <T	3.210 <T	2.790 <T
AUG	BDL	3.400 <T	2.100 <T	2.900 <T	3.800 <T	4.000 <T
SEP	BDL	1.600 <T	2.100 <T	2.500 <T	2.200 <T	2.100 <T
OCT	BDL	.	BDL	BDL	.	.
NOV	BDL	BDL	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL	1.300 <T	BDL
STRONTIUM (UG/L) DET'N LIMIT = .050 GUIDELINE = N/A						
JAN	180.000	180.000	180.000	170.000	180.000	180.000
FEB	180.000	190.000	180.000	180.000	180.000	170.000
MAR	180.000	190.000	200.000	190.000	200.000	190.000
APR	170.000	170.000	180.000	170.000	180.000	170.000
MAY	180.000	170.000	190.000	170.000	180.000	190.000
JUN	190.000	190.000	200.000	190.000	.	190.000
JUL	193.010	193.560	195.740	195.290	197.650	195.560
AUG	180.000	180.000	180.000	180.000	180.000	180.000
SEP	190.000	190.000	190.000	180.000	180.000	180.000
OCT	180.000	.	180.000	180.000	.	.
NOV	170.000	170.000	180.000	170.000	180.000	170.000
DEC	180.000	180.000	180.000	190.000	190.000	190.000
TITANIUM (UG/L) DET'N LIMIT = .050 GUIDELINE = N/A						
JAN	2.300	1.900 <T	2.300	2.400	2.400	2.000 <T
FEB	3.800	4.200	4.500	4.200	4.200	4.400
MAR	4.500	4.900	3.600	3.900	3.500	3.600
APR	6.000	5.600	5.600	5.700	5.600	5.100
MAY	3.400	2.700	2.700	2.900	3.600	4.100
JUN	8.100	5.200	5.000	4.900	.	6.600
JUL	7.640	6.040	5.540	6.090	6.380	7.160
AUG	7.300	6.800	6.900	6.900	7.000	6.700
SEP	7.300	4.500	4.400	4.100	5.000	4.600
OCT	4.200	.	4.100	4.000	.	.
NOV	5.800	5.500	5.100	5.000	5.800	5.700
DEC	3.100 <T	4.200 <T	4.200 <T	4.500 <T	4.400 <T	4.300 <T
THALLIUM (UG/L) DET'N LIMIT = .010 GUIDELINE = 13. (D4)						

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DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	BDL	BDL	BDL	.020 <T	BDL	.020 <T
FEB	BDL	BDL	BDL	BDL	BDL	BDL
MAR	BDL	BDL	BDL	BDL	BDL	BDL
APR	.060 <T	BDL	BDL	BDL	BDL	BDL
MAY	.100 <T	.050 <T	.100 <T	BDL	.090 <T	.180 <T
JUN	.060 <T	.030 <T	.070 <T	.040 <T	.	.060 <T
JUL	.080 <T	.020 <T	.150 <T	BDL	.110 <T	.070 <T
AUG	BDL	BDL	.020 <T	BDL	BDL	BDL
SEP	.020 <T	BDL	.020 <T	.020 <T	BDL	BDL
OCT	BDL	.	.030 <T	BDL	.	.
NOV	BDL	BDL	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL	BDL	BDL
URANIUM (UG/L)				DET'N LIMIT = .020	GUIDELINE = 100.(B1)	
JAN	.410	.420	.440	.410	.440	.460
FEB	.460	.650	.680	.670	.740	.630
MAR	.490	.480	.620	.610	.680	.660
APR	.430	.530	.470	.460	.510	.510
MAY	.420	.500	.460	.520	.530	.480
JUN	.520	.500	.510	.510	.	.540
JUL	.640	.790	.750	.760	.730	.680
AUG	.480	.590	.520	.520	.500	.550
SEP	.320	.340	.360	.320	.320	.330
OCT	.300	.	.410	.370	.	.
NOV	.360	.360	.360	.300	.320	.350
DEC	.370 <T	.380 <T	.390 <T	.330 <T	.330 <T	.350 <T
VANADIUM (UG/L)				DET'N LIMIT = .050	GUIDELINE = N/A	
JAN	.210 <T	.200 <T	.220 <T	.210 <T	.230 <T	.180 <T
FEB	.220 <T	.230 <T	.230 <T	.240 <T	.310 <T	.200 <T
MAR	.300 <T	.230 <T	.300 <T	.190 <T	.260 <T	.250 <T
APR	.230 <T	.220 <T	.250 <T	.250 <T	.260 <T	.220 <T
MAY	.410 <T	.340 <T	.370 <T	.420 <T	.450 <T	.430 <T
JUN	.400 <T	.300 <T	.360 <T	.290 <T	.	.320 <T
JUL	.530	.480 <T	.470 <T	.490 <T	.490 <T	.490 <T
AUG	.410 <T	.410 <T	.390 <T	.400 <T	.440 <T	.430 <T
SEP	.560	.500 <T	.490 <T	.460 <T	.490 <T	.510
OCT	.310 <T	.	.330 <T	.270 <T	.	.
NOV	.440 <T	.390 <T	.400 <T	.380 <T	.430 <T	.460 <T
DEC	.200 <T	.260 <T	.200 <T	.220 <T	.300 <T	.280 <T
ZINC (UG/L)				DET'N LIMIT = .001	GUIDELINE = 5000. (A3)	
JAN	1.500	1.900	70.000	5.100	8.100	2.700
FEB	1.600	2.100	64.000	5.300	27.000	3.200
MAR	2.000	1.900	34.000	3.800	21.000	3.500
APR	2.000	1.900	65.000	5.600	69.000	3.500
MAY	1.800	1.800	68.000	4.400	32.000	2.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	3.500	2.100	87.000	6.700	.	5.600
JUL	2.170	1.780	95.350	8.310	25.630	3.010
AUG	1.300	.970 <T	70.000	4.300	28.000	1.900
SEP	3.300	.950 <T	79.000	7.400	28.000	1.800
OCT	1.900	.	65.000	3.400	.	.
NOV	.930 <T	1.100	75.000	3.400	20.000	1.300
DEC	1.000 <T	1.700 <T	73.000	4.700	44.000	1.500 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHLOROAROMATICS						
HEXACHLOROETHANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 1900 (D4)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	1.000 <T	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
PESTICIDES & PCB						
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)	
JAN	1.000 <T	BDL	.	BDL	.	BDL
FEB	BDL	2.000 <T	.	1.000 <T	.	BDL
MAR	1.000 <T	2.000 <T	.	2.000 <T	.	2.000 <T
APR	BDL	1.000 <T	.	BDL	.	BDL
MAY	1.000 <T	1.000 <T	.	1.000 <T	.	BDL
JUN	1.000 <T	BDL	.	BDL	.	BDL
JUL	1.000 <T	1.000 <T	.	2.000 <T	.	1.000 <T
AUG	BDL	1.000 <T	.	2.000 <T	.	2.000 <T
SEP	2.000 <T	3.000 <T	.	4.000 <T	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	1.000 <T	.	1.000 <T	.	1.000 <T
DEC	2.000 <T	BDL	.	BDL	.	BDL
LINDANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	1.000 <T	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
ATRAZINE (NG/L)			DET'N LIMIT = 50.00		GUIDELINE = 60000 (B3)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	190.000 <T	.	290.000 <T
JUL	BDL	BDL	.	BDL	.	BDL
AUG	100.000 <T	110.000 <T	.	.	.	.
SEP	BDL	BDL	.	IIS	.	IIS
OCT	BDL	.	.	.	.	.
NOV	BDL	BDL	.	.	.	.
DEC	BDL	BDL	.	.	.	.
CYANAZINE (BLADEX) (NG/L)			DET'N LIMIT = 100.00		GUIDELINE = 10000 (B3)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	100.000 <T	150.000 <T	.	.	.	.
SEP	BDL	BDL	.	IIS	.	IIS
OCT	BDL	.	.	.	.	.
NOV	BDL	BDL	.	.	.	.
DEC	BDL	BDL	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PHENOLICS					
PHENOLICS (UG/L)			DET'N LIMIT = 0.2		GUIDELINE = 2.00 (A3)	
JAN	1.600	1.800	.	.	.	.
FEB	1.600	1.600	.	.	.	.
MAR	1.600	1.600	.	.	.	.
APR	1.200	2.400	.	.	.	.
MAY	2.600	2.800	.	.	.	.
JUN	.400 <T	.400 <T	.	.	.	.
JUL	1.000 <T	1.000 <T	.	.	.	.
AUG	25.000	11.200	.	.	.	.
SEP	1.300 <T	1.700 <T	.	.	.	.
OCT	1.000	.	.	.	.	.
NOV	16.000	1.600	.	.	.	.
DEC	.600 <T	BDL	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
VOLATILES						
BENZENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 5.0 (81)		
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	.050 <T	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.050 <T	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
TOLUENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 24.0 (84)		
JAN	.100 <T	.100 <T	.	.100 <T	.	BDL
FEB	BDL	BDL	.	.050 <T	.	BDL
MAR	.050 <T	BDL	.	.050 <T	.	.100 <T
APR	.050 <T	.100 <T	.	.100 <T	.	BDL
MAY	BDL	.100 <T	.	.100 <T	.	.100 <T
JUN	.050 <T	.100 <T	.	.050 <T	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	.100 <T	.	.100 <T	.	.050 <T
SEP	BDL	BDL	.	BDL	.	BDL
OCT	.050 <T	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
ETHYLBENZENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 2.4 (84)		
JAN	.050 <T	.100 <T	.	.050 <T	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	.050 <T	.	BDL
APR	BDL	.050 <T	.	.100 <T	.	.050 <T
MAY	BDL	.050 <T	.	BDL	.	BDL
JUN	BDL	.050 <T	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	.050 <T	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	.150 <T	.	BDL
DEC	BDL	.050 <T	.	BDL	.	BDL
M-XYLENE (UG/L)				DET'N LIMIT = .100 GUIDELINE = 300 (84)		
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	.100 <T	.	BDL	.	BDL
JUN	BDL	.100 <T	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	.400 <T	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
O-XYLENE (UG/L)				DET'N LIMIT = .050	GUIDELINE = 300 (B4)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	.050 <T	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	.200 <T	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
STYRENE (UG/L)				DET'N LIMIT = .050	GUIDELINE = 46.5 (D2)	
JAN	.400 <T	.450 <T	.	.400 <T	.	.100 <T
FEB	.100 <T	.050 <T	.	.200 <T	.	.200 <T
MAR	.300 <T	.250 <T	.	.400 <T	.	.200 <T
APR	.100 <T	.200 <T	.	.400 <T	.	.200 <T
MAY	BDL	.300 <T	.	.350 <T	.	.050 <T
JUN	BDL	.200 <T	.	.150 <T	.	.150 <T
JUL	BDL	.100 <T	.	.150 <T	.	.150 <T
AUG	BDL	.100 <T	.	.200 <T	.	BDL
SEP	BDL	BDL	.	.200 <T	.	.100 <T
OCT	BDL	.	.	.100 <T	.	.
NOV	BDL	.150 <T	.	.250 <T	.	.100 <T
DEC	BDL	.200 <T	.	.200 <T	.	.050 <T
CHLOROFORM (UG/L)				DET'N LIMIT = .100	GUIDELINE = 350 (A1+)	
JAN	BDL	9.700	.	6.100	.	5.500
FEB	BDL	11.300	.	7.600	.	7.500
MAR	.100 <T	9.900	.	8.100	.	8.300
APR	.200 <T	24.300	.	16.300	.	17.400
MAY	BDL	19.800	.	13.600	.	15.300
JUN	BDL	31.500	.	24.000	.	24.300
JUL	BDL	27.600	.	21.200	.	23.900
AUG	BDL	26.300	.	16.800	.	18.200

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	21.700	.	13.900	.	20.000
OCT	BDL	.	.	10.000	.	.
NOV	BDL	12.000	.	9.500	.	10.600
DEC	BDL	12.500	.	7.700	.	9.100
111, TRICHLOROETHANE (UG/L)				DET'N LIMIT = .020 GUIDELINE = 200 (D1)		
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	.020 <T	.	BDL	.	.040 <T
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	.040 <T	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
DICHLOROBROMOMETHANE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 350 (A1+)		
JAN	BDL	8.950	.	5.900	.	5.650
FEB	BDL	10.500	.	6.750	.	6.750
MAR	.100 <T	8.000	.	5.700	.	5.750
APR	BDL	13.300	.	9.400	.	9.600
MAY	BDL	10.950	.	8.100	.	9.400
JUN	BDL	15.350	.	11.950	.	12.800
JUL	BDL	15.700	.	12.600	.	13.850
AUG	BDL	15.800	.	11.000	.	12.150
SEP	BDL	13.300	.	9.600	.	12.300
OCT	BDL	.	.	8.400	.	.
NOV	BDL	9.000	.	7.550	.	8.450
DEC	BDL	10.600	.	6.150	.	7.600
CHLORODIBROMOMETHANE (UG/L)				DET'N LIMIT = .100 GUIDELINE = 350 (A1+)		
JAN	BDL	5.300	.	3.600	.	3.300
FEB	BDL	5.700	.	4.000	.	3.900
MAR	BDL	3.700	.	2.900	.	2.800
APR	BDL	4.400	.	3.600	.	3.400
MAY	BDL	4.300	.	3.200	.	3.700
JUN	BDL	4.900	.	4.000	.	4.100
JUL	BDL	6.500	.	5.400	.	5.700
AUG	BDL	7.700	.	5.900	.	6.600
SEP	BDL	7.000	.	5.600	.	6.800
OCT	BDL	.	.	4.700	.	.
NOV	BDL	4.800	.	3.700	.	4.500
DEC	BDL	4.400	.	4.100	.	4.200

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM CORNWALL WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
T-CHLOROETHYLENE (UG/L)				DET'N LIMIT = .050	GUIDELINE = 10.0 (C2)	
JAN	BDL	.050 <T	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	.050 <T	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	.100 <T	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	BDL	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.	.	BDL	.	.
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
BROMOFORM (UG/L)				DET'N LIMIT = .200	GUIDELINE = 350 (A1+)	
JAN	BDL	.800 <T	.	.600 <T	.	.600 <T
FEB	BDL	.800 <T	.	.600 <T	.	.400 <T
MAR	BDL	.600 <T	.	.800 <T	.	.400 <T
APR	BDL	.400 <T	.	.200 <T	.	.200 <T
MAY	BDL	.200 <T	.	.200 <T	.	.200 <T
JUN	BDL	.400 <T	.	BDL	.	.200 <T
JUL	BDL	.600 <T	.	.600 <T	.	.600 <T
AUG	BDL	.800 <T	.	.800 <T	.	BDL
SEP	BDL	.800 <T	.	.600 <T	.	.800 <T
OCT	BDL	.	.	.800 <T	.	.
NOV	BDL	.400 <T	.	.400 <T	.	.400 <T
DEC	BDL	.600 <T	.	.600 <T	.	.600 <T
TOTL TRIHALOMETHANES (UG/L)				DET'N LIMIT = .500	GUIDELINE = 350 (A1)	
JAN	BDL	24.750	.	16.200	.	15.050
FEB	BDL	28.300	.	18.950	.	18.550
MAR	BDL	22.200	.	17.500	.	17.250
APR	BDL	42.400	.	29.500	.	30.600
MAY	BDL	35.250	.	25.100	.	28.600
JUN	BDL	52.150	.	39.950	.	41.400
JUL	BDL	50.400	.	39.800	.	44.050
AUG	BDL	50.600	.	34.500	.	36.950
SEP	BDL	42.800	.	29.700	.	39.900
OCT	BDL	.	.	23.900	.	.
NOV	BDL	26.200	.	21.150	.	23.950
DEC	BDL	28.150	.	18.450	.	21.550

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML (A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL (A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000. (B4)
PENTACHLOROPHENOL	NG/L	50.	30000. (B4)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5 (A4)
FIELD TEMPERATURE	°C	N/A	<15 °C (A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500 (A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20 (A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100 (A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5(A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40(F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)
METALS			
ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	10. (F3)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
PESTICIDES & PCB			
ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	900000. (B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE(THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO(A)ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	200000.	(B4)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	(B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	20000.	(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION(AZINPHOSMETHYL)	NG/L	N/A	20000.	(B1)
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(A1)
METHYLTRITHION	NG/L	20.	N/A	
PARATHION	NG/L	20.	50000.	(B1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
PHORATE (THIMET)	NG/L	20.	2000. (B3)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENONYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	90000. (B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALLATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	90000. (B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)
VOLATILES			
BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHLYENE DIBROMIDE	UG/L	.05	.05 G)
METHYLENE CHLORIDE	UG/L	.500	50. (B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70. (D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0 (D5)
TRICHLOROETHYLENE	UG/L	.100	50. (B1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60(D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17(D4)
CHLOROBENZENE	UG/L	.100	60. (D5)
1,4-DICHLOROBENZENE	UG/L	.100	1.0 (B4)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	3.0 (B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	140. (D5)